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SEMICONDUCTOR THIN-**AMORPHOUS** (54) METHOD OF FORMING FILM

(57) Abstract:

compound gas. the plasma of a non-depositing reactive and the thin-film formed is exposed to decomposition of a silane compound a substrate by the thermal semiconductor thin-film is formed onto repeating the operation in which a light irradiation remarkably by PURPOSE: To improve stability to

monosilane, disilane and trisilane are less are used. times or less, preferably 200 times or upper limit of the number of repetition of repetition is twice or more. The gas, but it is desirable that the number plasma treatment of the non-depositing is executed successively. A specified non-depositing reactive compound gas shaped is exposed to the plasma of a treatment process in which a thin-film semiconductor thin-film. A plasma decomposed, thus forming a Such a raw material gas is thermally particularly favorable on handling. represents a natural number), and general formula SinH2n+2 (N as a raw material gas is shown by CONSTITUTION: A silane compound is not limited particularly, but 1000 through thermal decomposition and the the operation of film formation film thickness is acquired by repeating

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